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Study of $\psi(2s) \rightarrow \mu^+ \mu^-$ decay with KEDR detector

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Since 2004 KEDR detector at VEPP-4M collider has taken several data sets in $\psi(2s)$ region, acquiring total luminosity of about 7 pb^{-1} , which corresponds to more than $3.5 \times 10^6 \psi(2s)$.

There were 5 scans of the resonance allowing us to know the collider's energy spread and 5 runs where the data was taken at the $\psi(2s)$ peak and slightly below it.

We report the value of

$$\Gamma_{ee} \times B_{\mu\mu} = 20.5 \pm 0.5 \pm 1.0 \text{ eV.}$$

No direct measurement of this quantity is listed in the PDG tables yet.

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